

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A variable mirror comprising:
 - a fluid chamber;
 - an optical axis extending through at least a portion of the fluid chamber;
 - a first fluid, which is at least one of a polar and a conductive fluid, and a second fluid in contact over an interface extending transverse the optical axis, the fluids being substantially immiscible, said first fluid and said second fluid in edge contact with an inner wall of said fluid chamber, said inner wall including a portion being hydrophilic and a portion being hydrophobic, wherein said contact of said first and said second fluid with said inner wall is initially in the hydrophobic portion; wherein the interface comprising a reflective material between the first and second fluids; and
 - an interface adjuster comprising:
 - a first electrowetting electrode in electrical contact with the first fluid;
 - at least one second electrowetting electrode located adjacent the
 - interface; and
 - a voltage source for applying a voltage between said first and
 - second electrodes for altering the configuration of said interface ~~arranged to alter the configuration of the interface~~ via the electrowetting effect such that the edges
 - of the first fluid in contact with the inner wall are pulled toward said first electrode;
 - ~~and wherein the interface comprises a reflective material.~~
2. (original) A mirror as claimed in claim 1, wherein the reflective material comprises a metal.
3. (previously presented) A mirror as claimed in claim 1, wherein the reflective material comprises a Metal Liquid – Like Film.
4. (previously presented) A mirror as claimed in claim 1, wherein the reflective

material comprises a thin metal layer on an organic polymer film.

5. (cancelled)

6. (Currently amended) A mirror as claimed in claim ~~[[5]]~~ 1, wherein the second electrowetting electrode ~~(254,254a,254b)~~ is arranged to act on at least a portion of the interface edge.

7. (Currently amended) A mirror as claimed in claim ~~[[5]]~~ 1, wherein the second electrode is separated from the interface by at least a portion of said second fluid.

8. (Currently amended) An optical device comprising:

a variable mirror comprising:

a fluid chamber;

an optical axis extending through at least a portion of the fluid chamber;

a first fluid₁ which is at least one of a polar and a conductive, and a second fluid in contact over ~~[[an]]~~ a reflective material interface extending transverse the optical axis, the fluids being substantially immiscible, said first fluid and said second fluid in edge contact with an inner wall of said fluid chamber, said inner wall including a portion being hydrophilic and a portion being hydrophobic, wherein said contact of said first and second fluid with said inner wall is initially in the hydrophobic portion ;

an interface adjuster comprising:

a first electrowetting electrode in electrical contact with the first fluid;

at least one second electrowetting electrode located adjacent the interface; and

a voltage source for applying a voltage between said first and second electrodes arranged to alter the configuration of the interface via the electrowetting effect such that the edges of the first fluid in contact with the inner wall are pulled toward said first electrode.; and wherein the interface comprises a reflective material.

9. (Previously presented) An optical device as claimed in claim 8, wherein the optical device comprises a laser cavity including said variable mirror, the cavity further including a second mirror.

10. (Previously presented) An optical device as claimed in claim 8, wherein said optical device comprises a Maksutov Cassegrain catadioptric system comprising a primary mirror and a secondary mirror, the primary mirror being formed by said variable mirror.

11. (Previously presented) An optical device as claimed in claim 8, wherein the optical device comprises an optical scanning device for scanning an optical record carrier.

12. (Cancelled)

13. (Cancelled)